Geoscientists use physics, chemistry, biology, mathematics, etc. to understand how the Earth system works

Geosciences is the proto-typical multi-disciplinary science

Engineers use use physics, chemistry, biology, mathematics, etc. to manipulate and control the Earth system

The goal of geochemical research is to better understand fundamental processes associated with the chemical evolution of the Earth (and other planetary bodies).

DUSEL offers geochemists the opportunity to:

design and control experimental parameters plan long-duration experiments have guaranteed access to the experimental site

Flagship Experiment in Geochemistry

How do Mississippi Valley type Pb-Zn-Cu deposits form?

How do Mississippi Valley type Pb-Zn-Cu deposits form?

Identify and characterize isolated rock mass (1-10 yr)

Establish a thermal environment (1-2 yr)

Introduce fluids (10-30 yr)

Monitor the system remotely and through sampling (C)

Mine back the rock volume (5-10 yr)

How do Mississippi Valley type Pb-Zn-Cu deposits form?

geochemistry

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How do Mississippi Valley type Pb-Zn-Cu deposits form?
                  geochemistry
                  geology
                  mining engineering
                  civil engineering
                  geological engineering
                  environmental engineering
                  bio-geosciences
                  hydrogeology
                  geophysics
                  technique development
                  E&0
                  etc. .....
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